

ASSIGNMENT INSTRUCTIONS

DISCUSSION #3

SUBJECT: HASHING

YOUR POST SHOULD INCLUDE, BUT IS NOT LIMITED TO:

1. A description of hashing
2. Explain or demonstrate how hashing condenses data to produce a unique output.
 - A) Your example can be any hashing algorithm, even a simple one.
 - B) Your examples does not have to be one of the sophisticated algorithms such as MD5 or SHA256.
 - C) Hint: Look at the history and original uses of hashing for data retrieval.
3. A brief explanation of how a hashing algorithm works
 - A) Explain chunking
 - B) Explain padding
 - C) Define rounds
 - D) Define block chaining
4. List and explain three (3) major features of hashing
5. Explain how hashing is different from encryption.
6. Explain how hashing is different from compression.
7. Name at least two (2) current, commonly used hashing algorithms
8. Name at least two (2) hashing algorithms no longer used and; state why they are no longer used.
9. What is hashing used for in cybersecurity?
 - A) Give at least 2 examples
 - B) Explain how hashing improves the security in the examples you give or;
 - C) Explain how hashing prevents hacking in the examples you give.
10. Name and define the two (2) major weakness/attacks of hashing
11. Why is hashing an integral part network security and; still used in network security in spite of its weaknesses?

REMEMBER:

You are graded on grammar, spelling and punctuation as well as your content.
There is a 1/2 point deduction for each error that your paper generates on www.languagetool.org
There is a 1/2 point deduction for not defining a term before using it.
There is a 1/2 point deduction for not defining an abbreviation properly.
Ex. All Abbreviations Must Be Defined (AAMBD)
There is a 1/2 point deduction for not defining an abbreviation before using it.
Wikipedia is not a citation. There is a 10 point deduction for citing Wikipedia.

ASSIGNMENT INSTRUCTIONS

DISCUSSION #3

SUBJECT: HASHING

GIVE AN EXAMPLE OF HASHING AND DEMONSTRATE:

1. That a hash digest is the same size for any size input.
2. That a change – no matter how small – in the object of hashing, will produce a significant change in the output of the hash.
3. Your example may not be the same as any other example, submitted by any other student.
This will be judged by timestamp of the post.
4. Explain how hashing improves the security in the examples you give OR;
Explain how hashing prevents hacking in the examples you give.

RESOURCES:

<https://medium.com/swlh/hashing-technique-and-its-importance-e5a8c9a6e07a>

REMEMBER:

You are graded on grammar, spelling and punctuation as well as your content.
There is a 1/2 point deduction for each error that your paper generates on www.languageTool.org
There is a 1/2 point deduction for not defining a term before using it.
There is a 1/2 point deduction for not defining an abbreviation properly.
Ex. All Abbreviations Must Be Defined (AAMBD)
There is a 1/2 point deduction for not defining an abbreviation before using it.
Wikipedia is not a citation. There is a 10 point deduction for citing Wikipedia.